

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0026] on page 8 of the specification as filed with the following:

[0026] In some embodiments, the domain corresponding to residues 1-167 of Figure 2 comprises a sequence according to Formula (I) (SEQ ID NO: 05):

Ser- Φ aa₁- Φ aa₂-Zaa-Xaa₁- Φ aa₃- Φ aa₄-Xaa₂-Baa₁- Σ aa₁-Xaa₃-Asn-Xaa₄-Xaa₅- Φ aa₅-Xaa₆-Xaa₇-Leu-Xaa₈-Xaa₉-Xaa₁₀-Xaa₁₁-Xaa₁₂-Xaa₁₃-Baa₂-Xaa₁₄- Δ aa₁-Leu-Xaa₁₅-Xaa₁₆-Leu-Xaa₁₇-Xaa₁₈- Σ aa₂-Leu-Leu-Arg-Xaa₁₉-His- Σ aa₃- Φ aa₆-Leu- Δ aa₂- Ω aa₁-Ala- Ω aa₂- Σ aa₄-Arg-Xaa₂₀-Xaa₂₁-Xaa₂₂-Xaa₂₃-Xaa₂₄-Xaa₂₅-Xaa₂₆-Ser-Leu-Val-Xaa₂₇- Φ aa₇- Φ aa₈-Xaa₂₈-Xaa₂₉-Leu-Lys- Δ aa₃-Xaa₃₀-Ala-Tyr-Asp-Ala- Δ aa₄-Asp- Φ aa₉-Leu- Δ aa₅-Glu- Φ aa₁₀-Glu-Xaa₃₁-Xaa₃₂-Ala-Xaa₃₃-Baa₃-Xaa₃₄-Lys-Val (I)

wherein: each of Φ ₁₋₁₀ is independently selected from any hydrophobic amino acid residue,
Zaa is a neutral/polar amino acid residue,
each of Σ aa₁₋₄ is independently selected from any small amino acid residue,
each of Baa₁₋₃ is independently selected from any basic amino acid residue,
each of Δ aa₁₋₅ is independently selected from any acidic amino acid residue,
each of Ω aa₁₋₂ is independently selected from any charged amino acid residue, and
Xaa₁₋₃₃ are each independently selected from any amino acid residue.

Please replace paragraph [0037] on pages 10-11 of the specification as filed with the following:

[0037] In some embodiments, the domain corresponding to residues 168-536 of Figure 2 comprises a sequence according to Formula (II) (SEQ ID NO: 06):

Arg-Xaa₁-Xaa₂-Thr- Σ aa₁-Ser- Φ aa₁-Leu-Thr-Glu- Σ aa₂-Xaa₃- Φ aa₂- Φ aa₃-Gly-Arg-Xaa₄-Gln- Δ aa₁-Baa₁-Glu-Xaa₅- Φ aa₄- Φ aa₅- Ω aa₁-Leu-Leu-Leu- Δ aa₂- Σ aa₃- Σ aa₄-Xaa₆-Gly-Xaa₇-Xaa₈- Σ aa₅-Phe- Σ aa₆-Val- Φ aa₆-Pro- Φ aa₇-Val-Gly- Φ aa₈-Gly-Gly-Xaa₉-Gly-Lys-Thr-Thr-Leu- Σ aa₇-Gln-Leu- Φ aa₉- Φ aa₁₀-Asn-Asp-Xaa₁₀-Arg-Val-Xaa₁₁-Xaa₁₂-Xaa₁₃-Phe-Xaa₁₄-Leu-Baa₂- Φ aa₁₁-Trp-Val-Cys-Val-Ser-Asp-Xaa₁₅-Phe-Xaa₁₆-Val-Lys-Arg- Φ aa₁₂-Thr-Baa₃-Glu-Ile-Xaa₁₇-Glu-Xaa₁₈-Ala-Thr-Xaa₁₉-Xaa₂₀- Ω aa₂-Xaa₂₁-Xaa₂₂-Asp-Xaa₂₃-Xaa₂₄-Asn-Leu-Xaa₂₅-Xaa₂₆-Leu-Gln-Xaa₂₇-Xaa₂₈-Leu-Lys-Glu- Ω aa₃-Ile-Xaa₂₉- Σ aa₈-Xaa₃₀-Xaa₃₁-Phe-Leu-Leu-Val-Leu-Asp-Asp-Val-Trp-

Xaa₃₂-Glu-Xaa₃₃-Xaa₃₄-Xaa₃₅-Ωaa₄-Trp-Glu-Xaa₃₆-Leu-Xaa₃₇-Ala-Pro-Leu-Ωaa₅-Xaa₃₈-Σaa₉-
Σaa₁₀-Arg-Gly-Ser-Xaa₃₉-Val-Ile-Val-Thr-Thr-Xaa₄₀-Xaa₄₁-Xaa₄₂-Lys-Φaa₁₃-Ala-Xaa₄₃- Φaa₁₄-
Xaa₄₄-Gly-Thr-Met-Ωaa₆-Xaa₄₅-Φaa₁₅-Xaa₄₆-Leu-Åaa₃-Xaa₄₇-Leu-Xaa₄₈-Åaa₄-Asp-Xaa₄₉-Xaa₅₀-
Trp-Xaa₅₁-Leu-Φaa₁₆-Ωaa₇-Xaa₅₂-Xaa₅₃-Σaa₁₁-Phe-Xaa₅₄-Xaa₅₅-Xaa₅₆-Xaa₅₇-Xaa₅₈-Σaa₁₂-Xaa₅₉-
Xaa₆₀-Xaa₆₁-Xaa₆₂-Ωaa₈-Φaa₁₇-Glu-Xaa₆₃-Ile-Gly-Arg-Lys-Ile-Ala-Xaa₆₄-Lys-Φaa₁₈-Xaa₆₅-Gly-
Xaa₆₆-Pro-Φaa₁₉-Σaa₁₃-Ala-Xaa₆₇-Σaa₁₄-Φaa₂₀-Gly-Xaa₆₈-Φaa₂₁-Leu-Arg-Xaa₆₉-Ωaa₉-Xaa₇₀-
Σaa₁₅-Xaa₇₁-Xaa₇₂-Xaa₇₃-Trp-Arg-Xaa₇₄-Φaa₂₂-Φaa₂₃-Glu-Σaa₁₆-Glu-Xaa₇₅-Trp-Xaa₇₆-Φaa₂₄-
Pro-Xaa₇₇-Ala-Xaa₇₈-Xaa₇₉-Åaa₅-Φaa₂₅-Leu-Σaa₁₇-Xaa₈₀-Leu-Xaa₈₁-Xaa₈₂-Ser-Tyr-Xaa₈₃-Xaa₈₄-
Leu-Pro-Σaa₁₈-Xaa₈₅-Leu-Baa₄-Xaa₈₆-Cys-Phe-Ala-Phe-Cys-Ala-Φaa₂₆-Phe-Xaa₈₇-Lys-Xaa₈₈-
'Tyr-Xaa₈₉-Phe-Xaa₉₀-Lys-Ωaa₁₀-Xaa₉₁-Leu-Ile-Xaa₉₂-Xaa₉₃-Trp-Ile-Ala-Xaa₉₄-Xaa₉₅-Φaa₂₇-Ile

(II)

wherein: each of Φ₁₋₂₇ is independently selected from any hydrophobic amino acid residue,
each of Σaa₁₋₁₈ is independently selected from any small amino acid residue,
each of Baa₁₋₄ is independently selected from any basic amino acid residue,
each of Åaa₁₋₅ is independently selected from any acidic amino acid residue,
each of Ωaa₁₋₁₀ is independently selected from any charged amino acid residue,
and
Xaa₁₋₉₅ are each independently selected from any amino acid residue.

Please replace paragraph [0056] on pages 15-16 of the specification as filed with the following:

[0056] In some embodiments, the domain corresponding to residues 537-1476 of Figure 2 comprises a sequence according to Formula (III) (SEQ ID NO: 07):

Leu-Xaa₁-Ωaa₁-Xaa₂-Φaa₁-Phe-Baa₁-Xaa₃-Leu-Xaa₄-Arg-Ile-Baa₂-Val-Leu-Xaa₅-Φaa₂-
Xaa₆-Xaa₇-Cys-Xaa₈-Φaa₃-Baa₃-Xaa₉-Leu-Pro-Xaa₁₀-Xaa₁₁- Φaa₄-Gly-Xaa₁₂-Leu-Xaa₁₃-Xaa₁₄-
Leu-Arg-Tyr-Leu-Xaa₁₅-Φaa₅-Ser-Xaa₁₆-Asn-Σaa₁-Xaa₁₇-Ile-Gln-Arg-Leu-Pro-Glu-Ser-Φaa₆-
Xaa₁₈-Ωaa₂-Leu-Xaa₁₉-Xaa₂₀-Leu-Gln-Σaa₂-Leu-Xaa₂₁-Leu-Xaa₂₂-Gly-Cys-Xaa₂₃-Leu-Xaa₂₄-
Xaa₂₅-Φaa₇-Pro-Xaa₂₆-Σaa₃-Met-Ser-Baa₄-Leu-Φaa₈-Xaa₂₇-Leu-Arg-Gln-Leu-Baa₅-Xaa₂₈-Xaa₂₉-
Xaa₃₀-Åaa₁-Φaa₉-Ile-Σaa₄-Ωaa₃-Ile-Xaa₃₁-Ωaa₄-Val-Gly-Baa₆-Leu-Ile-Xaa₃₂-Leu-Gln-Glu-Leu-
Xaa₃₃-Ala-Φaa₁₀-Xaa₃₄-Val-Xaa₃₅-Xaa₃₆-Baa₇-Xaa₃₇-Gly-Xaa₃₈-Xaa₃₉-Φaa₁₁-Ala-Glu-Leu-Ser-

Σaa_5 - Φaa_{12} - Xaa_{40} -Gln-Leu-Baa $_8$ - Σaa_6 - Xaa_{41} -Leu- Xaa_{42} -Ile- Xaa_{43} -Asn-Leu- Xaa_{44} -Asn-Val-
 Xaa_{45} - Xaa_{46} - Xaa_{47} - Ωaa_5 -Glu- Σaa_7 - Xaa_{48} -Lys-Ala-Baa $_9$ -Leu- Ωaa_6 - Ωaa_7 -Lys-Gln- Xaa_{49} -Leu-
 Ωaa_8 - Xaa_{50} -Leu- Aaa_2 -Leu- Ωaa_9 -Trp-Ala- Xaa_{51} -Gly- Xaa_{52} - Xaa_{53} - Xaa_{54} - Xaa_{55} - Xaa_{56} - Xaa_{57} -
 Xaa_{58} -Glu- Xaa_{59} - Xaa_{60} - Xaa_{61} - Xaa_{62} - Ωaa_{10} - Ωaa_{11} -Val-Leu- Xaa_{63} -Gly-Leu- Xaa_{64} -Pro-His- Xaa_{65} -
 Xaa_{66} -Leu-Baa $_{10}$ - Xaa_{67} -Leu- Σaa_8 -Ile-Baa $_{11}$ - Xaa_{68} -Tyr- Σaa_9 -Gly- Σaa_{10} - Σaa_{11} - Xaa_{69} -Pro-Ser-Trp-
 Φaa_{13} - Xaa_{70} - Xaa_{71} - Xaa_{72} - Φaa_{14} -Leu-Pro-Asn- Φaa_{15} - Xaa_{73} -Thr- Φaa_{16} -Baa $_{12}$ -Leu- Ωaa_{12} - Xaa_{74} -
Cys- Σaa_{12} -Arg-Leu- Xaa_{75} - Xaa_{76} -Leu- Σaa_{13} - Xaa_{77} - Φaa_{17} -Gly-Gln-Leu- Xaa_{78} - Xaa_{79} -Leu-Baa $_{13}$ -
 Xaa_{80} -Leu-His- Φaa_{18} - Ωaa_{13} - Xaa_{81} -Met- Σaa_{14} - Xaa_{82} -Val-Baa $_{14}$ -Gln- Φaa_{19} - Xaa_{83} - Xaa_{84} - Xaa_{85} -
 Φaa_{20} - Xaa_{86} -Gly- Xaa_{87} - Σaa_{15} - Ωaa_{14} - Xaa_{88} - Xaa_{89} - Xaa_{90} -Phe-Pro- Xaa_{91} -Leu-Glu- Xaa_{92} -Leu-
 Xaa_{93} - Φaa_{21} - Ωaa_{15} - Ωaa_{16} -Met-Pro- Σaa_{16} -Leu- Ωaa_{17} -Glu- Φaa_{22} (III)

wherein: each of Φ_{1-22} is independently selected from any hydrophobic amino acid residue,
each of Σaa_{1-6} is independently selected from any small amino acid residue,
each of Baa $_{1-14}$ is independently selected from any basic amino acid residue,
each of Aaa_{1-2} is independently selected from any acidic amino acid residue,
each of Ωaa_{1-16} is independently selected from any charged amino acid residue,
and
 Xaa_{1-93} are each independently selected from any amino acid residue.